03/18/04

Date

Signature

UTILITY PATENT APPLICATION

PT,O/SB/05 (08-03)
Approved for use through 03/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Attorney Docket No. H0005288 ESKRIDGE, MARK H. First Inventor

TRANSMITTAL	Title	Flip Chip Bonded Micro-Electromechanical Syste		
IKANSIIIITIAL				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label	ER502985394US	_	

(Only for new	nonprovisional applications under 37 CFR 1.53(b))	Express N	Aail Label		ER502	985394US	ر
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			Mail Stop Patent Application Commissioner for Patents P. O. Box 1450 Alexandria VA 22313-1450				s. PT 609
1.	pee Transmittal Form (e.g., PTO/SB/17) submit an original, and a duplicate for fee processing pplicant claims small entity status. pee 37 CFR 1.27. pecification [Total Pages arrangement set forth below] Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & C Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed)	(if appli a. b. c.	Computer Proportion and Computer Proportion and Computer Specification Soliton in Page Statemen	Alexandria D-R in dup gram (App ino Acid S iny) er Readab Sequence -ROM or C per ents verifyi	a vA 22313-1450 licate, large table or endix) equence Submission le Form (CRF) Listing on: CD-R (2 copies); or Ing identity of above co	22856 U	
- 0	Detailed Description Claim(s) Abstract of the Disclosure		10.	37 CFR 3.73(b) (when there is an) Statemer assignee)	er sheet & document(sometric formation) Power of A ment (if applicable)	
	rawing(s) (35 U.S.C. 113) [Total Sheets	4]		Information Dis Statement (IDS	closure	Copies of I	DS
5. Oath or D a. b.	Newly executed (original or copy) Copy from a prior application (37 CF (for continuation/divisional with Box 18 co i. DELETION OF INVENTOR(S) Signed statement attached deletinamed in the prior application, see 1.63(d)(2) and 1.33(b). pplication Data Sheet. See 37 CFR 1.76	<i>mpleted)</i> S) ng inventor(s	14. 1 5. 1 6. 1	(b)(2)(B)(i). Ap or its equivalen	Postcard Tically itemize of Priority is claimed Request u plicant mu t. Page / Retur	ed)	
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Group / Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.				orated by			
			NDENCE AD				
\boxtimes	Customer Number:	0012		or	Corre	espondence address belo	w
Name	Name						
	Honeywell International, Inc. 101 Columbia Road, Law Department AB2						
Address	Tot Commission (Company) Department ADI						
City	MORRISTOWN	State	NEW JERSE	Y Zi	p Code	07962	
Country	USA Te	lephone	425-885-8509)	Fax	425- 885-8797	
Name	(Print/Type) CHARLES J. RUPNICK		Regis	stration No. (Atto	rney/Agent)	43,068	

This collection of information is required by 37 CFR 1/53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-03)
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FEE TRANSMITTAL	Complete if Known			
	Application Number	new app. (EXP. MAIL ER502985394US)		
for FY 2004	Filing Date	March 18, 2004		
Effective 10/01/2003. Patent fees are subject to annual revision.	First Named Inventor	MARK ESKRIDGE		
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	not assigned		
	Art Unit	not assigned		
TOTAL AMOUNT OF PAYMENT (\$) \$846.00	Attorney Docket No.	H0005288 ·		

		-		_		
METHOD OF PAYMENT (check all that apply)				FE	E CALCULATION (continued)	
Check Credit card Money Other None			DNAL			
Deposit Account:	Large F Fee	Fee	Fee	LEntity Fee	<u>′</u> Fee Description	Fee Paid
Deposit Account	Code 1051	(\$) 130	2051	(\$) 65	Surcharge - late filing fee or oath	
Number	1052	50	2052	25	Surcharge - late provisional filing fee or cover	
Deposit Account	1053	130	1053	120	sheet	
Name		2,520			Non - English specification For filing a request for ex parte reexamination	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner	
Charge any additional fee(s) or any underpayment of fee(s)	1				action	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-identified deposit account.	1251	110	2251	55	Extension for reply within first month	
FEE CALCULATION	1252	420	2252	210	Extension for reply within second month	
1. BASIC FILING FEE	1253	950	2253	475	Extension for reply within third month	
Large Entity Small Entity	1254	1,480	2254	740	Extension for reply within fourth month	
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2001 385 Utility filing fee 770.00	1401	330	2401	165	Notice of Appeal	
1002 340 2002 170 Design filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 2003 265 Plant filing fee	1403	290	2403	145	Request for oral hearing	
1004 770 2004 385 Reissue filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) \$770.00	1453	1,330	2453	665	Petition to revive - unintentional	
	1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLAIM FEES FOR UTILITY AND Fee from	1502	480	2502	240	Design issue fee	
Extra Claims below Fee Paid	1503	640	2503	320	Plant issue fee	
Total Claims 22 -20** = 2 X 18.00 = 36.00 Independent 3 - 3** = 0 X 0.00 = 0.00	1460	130	1460	130	Petitions to the Commissioner	
Claims 0.00 = 0.00 Multiple Dependent 0.00 = 0.00	1807	. 50	1807	50	Processing fee under 37 CFR § 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Statement	
Fee Fee Fee Fee Description Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	(37 CFR § 1.129(a)) For each additional invention to be examined	
1203 290 2203 145 Multiple dependent claim, if not paid					(37 CFR § 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application	
and over original patent	and over original patent Other fee (specify)					
SUBTOTAL (2) (\$) \$36.00						
**or number previously paid, if greater; For Reissues, see above	*Red	luced b	y Basic	Filing	Fee Paid SUBTOTAL (3) (\$)	\$40.00
SUBMITTED BY	SUBMITTED BY Complete (if applicable)					

Registration No. (Attorney/Agent) (253) 859-9128 CHARLES J. RUPNICK 43,068 Telephone Name (Print/Type) Signature **MARCH 18, 2004**

WARNING: Information on this form may become public. Credit card information should not be included on this form. Profibe credit card information and authorization on

This collection of information is required by 37 FFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patient and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below in an envelope as "Express Mail Post Office to Addressee" mailing Label Number ER502985394US addressed to:

Commissioner for Patents

Alexandria, VA 22313-1450

Signature of Depositor

Rhonda Goodloe
Print Name of Depositor

Date: March 18, 2004

IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

Attention: Mail Stop New Patent Application Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of:

Inventor(s): ESKRIDGE, Mark H.

For: (Title): FLIP CHIP BONDED MICRO-ELECTROMECHANICAL

SYSTEM (MEMS) DEVICE

Type of Application

This new application is for a(n)

APPLICATION(S) CLAIMED.

	Original (nonprovisional) Design Divisional Continuation Continuation-In-Part (CIP)
2.	Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121).
	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW

APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S.

3.	Papers Enclosed
A.	Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
	27 Pages of specification 1 Page of Title Page 4 Pages of claims 4 Sheets of drawings (Figs. 1-9)
	<pre>The enclosed drawings are photographs(s). The enclosed drawings are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWINGS" are attached. 37 C.F.R. § 1.84 (a)(2) AND § 1.84 (b). ★ formal</pre>
	informal
В.	Other Papers Enclosed
	2 Pages of declaration and power of attorney 1 Pages of abstract Request for Non-publication of application x Other (Return Receipt Postcards (2x)
4.	Additional papers enclosed
	Amendment to claims Cancel in this application claims before calculating the filing fee. (At least one original independent claim must be retained for filing
	purposes). Add the claims shown on the attached amendment (Claims added have been numbered consecutively following the highest numbered original claims).
	Preliminary Amendment Information Disclosure Statement (37 C.F.R. § 1.98) Form PTO-SB08 Citations
5. ⊠	Declaration or Oath (including Power of Attorney) Enclosed Executed by the inventors Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. This is the petition required by 37 CFR §1.47 an the statement required by 37 CFR §1.47 is also attached.
	Not enclosed

6.	Inventorship Statement
The	inventorship for all the claims in this application are:
	The same Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, is submitted. will be submitted.
7. ⊠	Language English
8.	Assignment
\boxtimes	An assignment of the invention to HONEYWELL INTERNATIONAL, INC.
	is attached. A separate COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION or Form PTO 1595 is also attached. will follow.
	This is a _continuation _divisional application and the assignment document for the parent application was filed as Reel, Frame
9.	Certified Copy
Cert	ified copy(ies) of application(s):
C	ountry Appln. No. Filed
from	which priority is claimed
	\square is (are) attached \square will follow.

10. Fee Calculation (37 C.F.R. § 1.16)

A. Regular Appli	cation		
	CLAIMS AS FI	LED	
Number Filed	Number Extra	Rate	Basic Fee 37 CFR. § 1.16(a) \$770.00
Total Claims		w 410 00	26.00
(37 CFR § 1.16(c)) 22-20=	2	X \$18.00	\$ 36.00
Independent Claims (37 CFR § 1.16b)) 3-3=	0	x \$86.00	\$ 0
Multiple dependent claims			
(37 CFR § 1.16) (d))		+ \$290.00	\$ 0
Amendment cancelin Amendment deleting Fee for extra clai	multiple-dependent ms not being p	ndencies is aid at this	enclosed. time.
FI	LING FEE CALC	JLATION:	\$ <u>806.00</u>
	ation C.F.R. § 1.16 LING FEE CALCU		\$
11. Assertion of Small	Entity Status	1	
Applicant hereby a C.F.R. § 1.27.	sserts status	as a small ϵ	entity under 37
Filing Fee Calculation	(50% of A, B,	or C above).	
\$_			
12. Fee Payment Being	Made At This T	ime	
Not enclosed. No filing fee	is to be paid	d at this ti	me.
Filing Fee: Recording Ass (\$40.00; 37 0	ignment .F.R. § 1.21 (\$806.00 \$ 40.00
TOTAL F	EES ENCLOSED:		\$846.00

13.	Metho	d of	Payment of	Fees		
	Check in the amount of \$ Authorization is hereby made to charge the amount of \$ To Deposit Account No. A duplicate of this transmittal is attached. Charge any additional fees required by this paper or credit any overpayment in the manner authorized above. To Credit Card as shown on the attached credit card information authorization form PTO -2038.					
14.	Autho	rizat	ion to Char	ge Addition	al Fees	
	above paper), to	charge the during the	following	(in the manner shown additional fees by this ency of this application to	
		37 C. extra 37 C. filir 37 C. pursu 37 C. of No.	F.R. § 1.16 claims) F.R. § 1.16 ng fee and/ong date of the F.R. § 1.17 nant to § 1.17 F.R. § 1.18	(b), (c) ar (e) (surcha or declaration the application (a)(1)-(5) 136(a)). (application (issue fee	(g) (filing fees) and (d) (presentation of arge for filing the basic tion on a date later than the tion) (extension fees) and or before mailing argument to 37 C.F.R. §	
Date:	Marc	h 18,	2004		SIGNATURE OF ATTORNEY	
Phone Fax:	:		859-9128 859-8915		CHARLES J. RUPNICK Reg. No. 43,068	
Custo	mer	No.	00128		24722-104th Avenue, S.E. Suite 102 Kent, Washington 98030-5322	

	Inco	rporation by reference of added pages
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added:
		Plus Added Pages for Papers Referred to in Item 4 above.
		Number of pages added:
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
		Number of pages added:
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added:
\boxtimes	Sta	tement Where No Further Pages Added
	\boxtimes	This transmittal ends with this page.